D0 Status Report
10/24/2005

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Fermilab

Data Taking for 10/17 – 10/23

Day	Delivered	Recorded	Eff.	Comments
10/17 (Mon)	2.55 pb^{-1}	2.43 pb^{-1}	88 %	1 hour downtime due to MDT crates in a bad state after a large halo spike.
10/18 (Tue)	2.06 pb^{-1}	1.89 pb^{-1}	92 %	
10/19 (Wed)	0.59 pb^{-1}	0.55 pb^{-1}	94 %	
10/20 (Thu)	2.09 pb^{-1}	1.69 pb^{-1}	81 %	Surpassed 1 fb^{-1} on tape. LCW problem caused Solenoid to slow dump, then fast dump and quench. Luminosity reported by VME electronics.
10/21 (Fri)	2.90 pb^{-1}	2.70 pb^{-1}	93 %	During squeeze of store 4462, received 108 rad/min.
10/22 (Sat)	3.58 pb^{-1}	3.34 pb^{-1}	94 %	Controlled access to replace a Calo daughter card. During squeeze of store 4464, received 170 rad/min.
10/23 (Sun)	3.17 pb^{-1}	2.92 pb^{-1}	92 %	During squeeze of store 4465, received 94 rad/min.

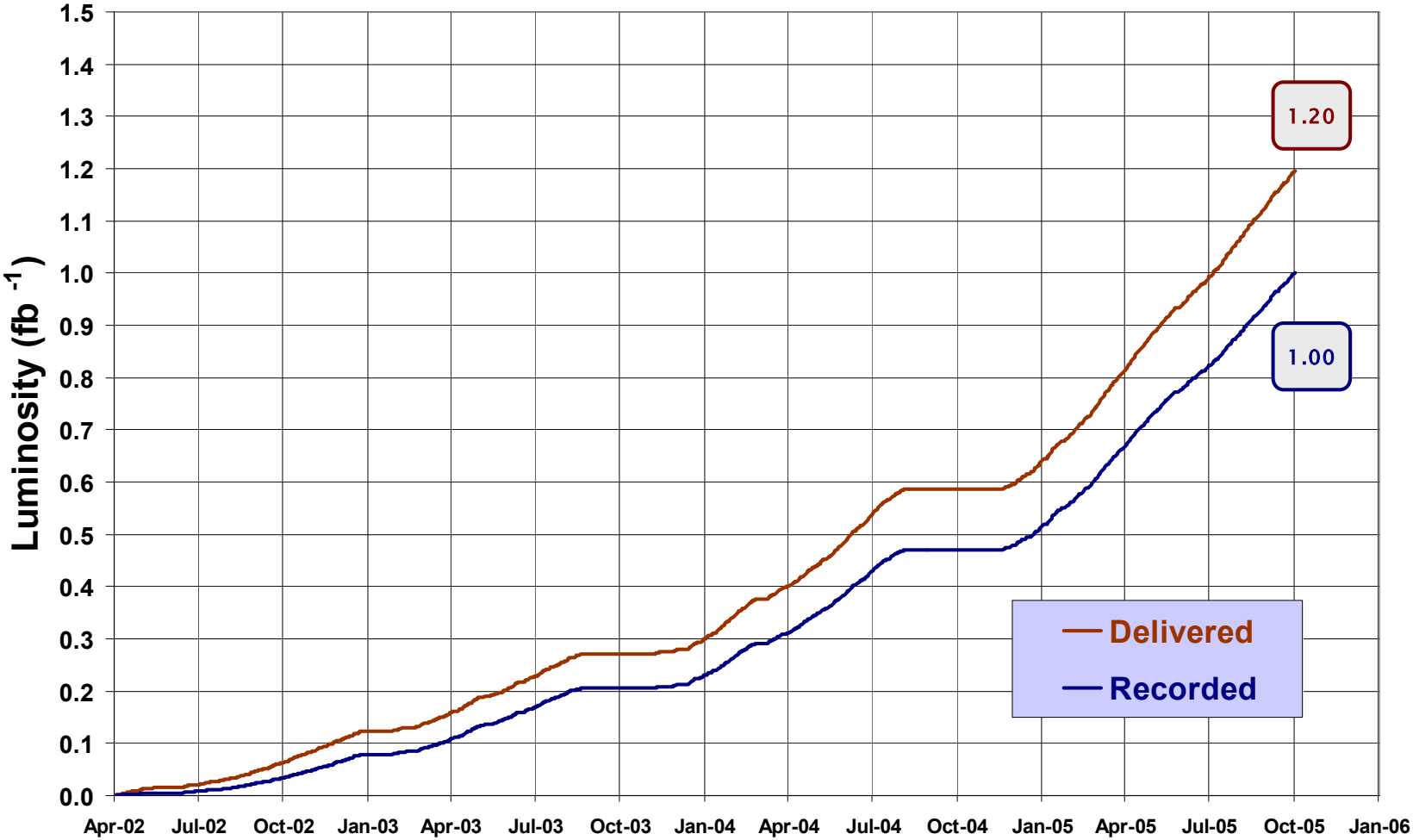
10/17–10/23	16.94 pb^{-1}	15.52 pb^{-1}	92 %	

Notable Events

- 10/17 (Mon)
  - 1 hour downtime due to MDT crates being in a bad state after a large halo spike.
- 10/20 (Thu)
  - D0 recorded luminosity surpassed 1000 pb^{-1}.
  - Solenoid tripped due to LCW high conductivity.
    - A repaired LCW pump was brought on-line, contaminating the low conductivity of the water.
    - This triggered a slow dump. Shortly into the slow dump, we went into a fast dump due to an overly tight quench protection limit.
    - Overall downtime of 3.5 hours.
  - Switched to the luminosity reporting by the VME electronics system from the one by the NIM electronics.

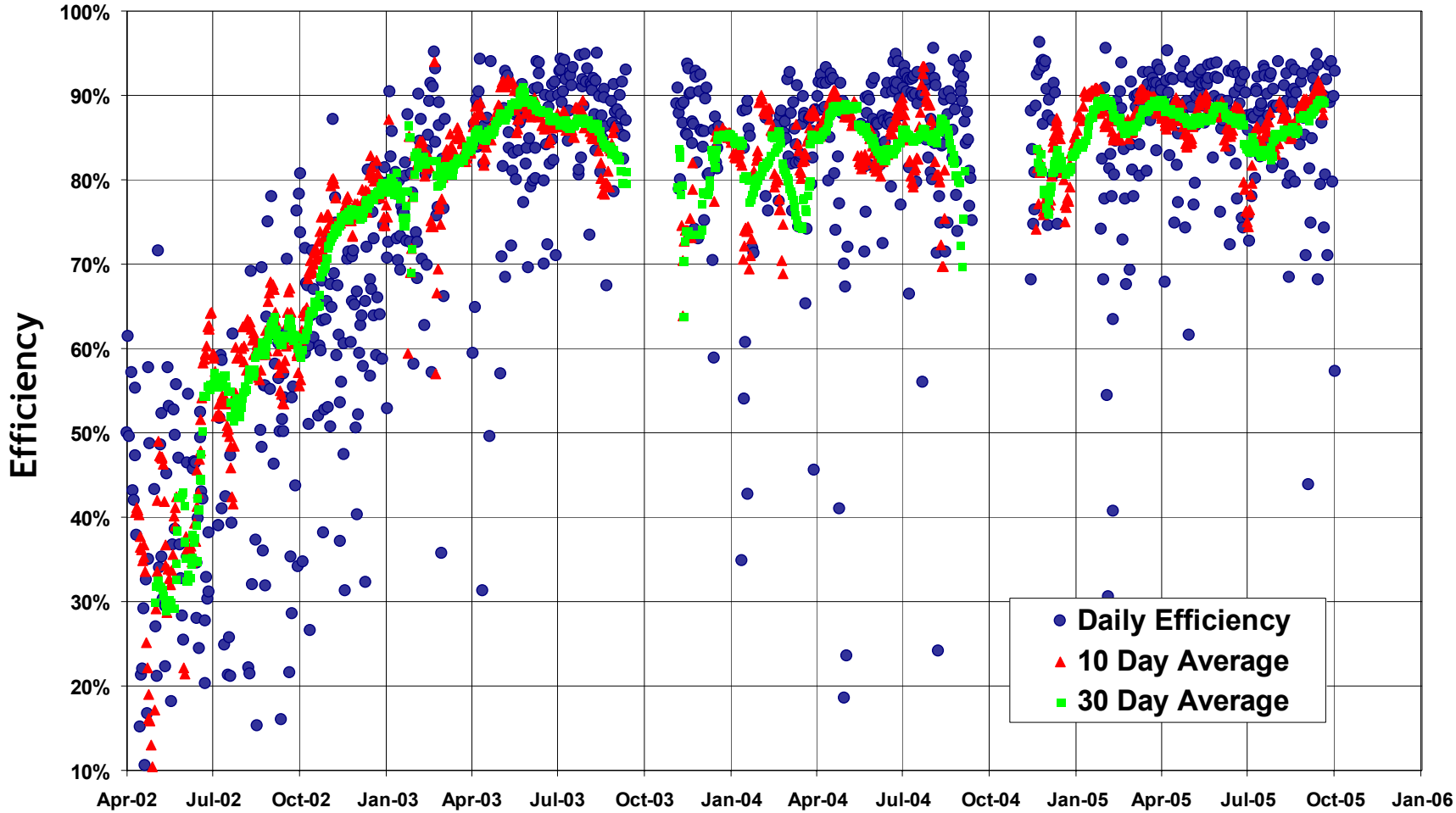
Run II Integrated Luminosity

19 April 2002 - 20 October 2005

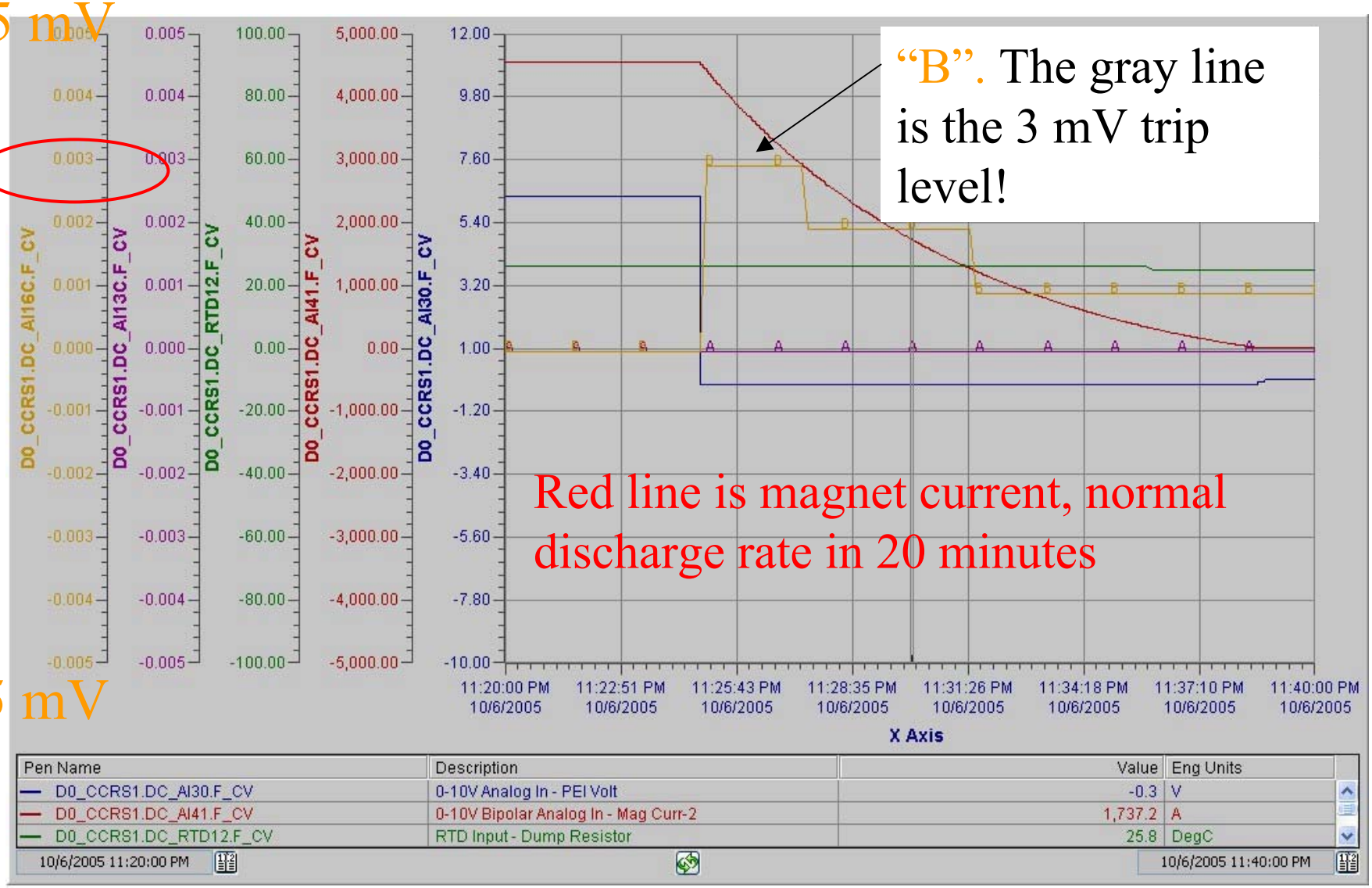


Daily Data Taking Efficiency

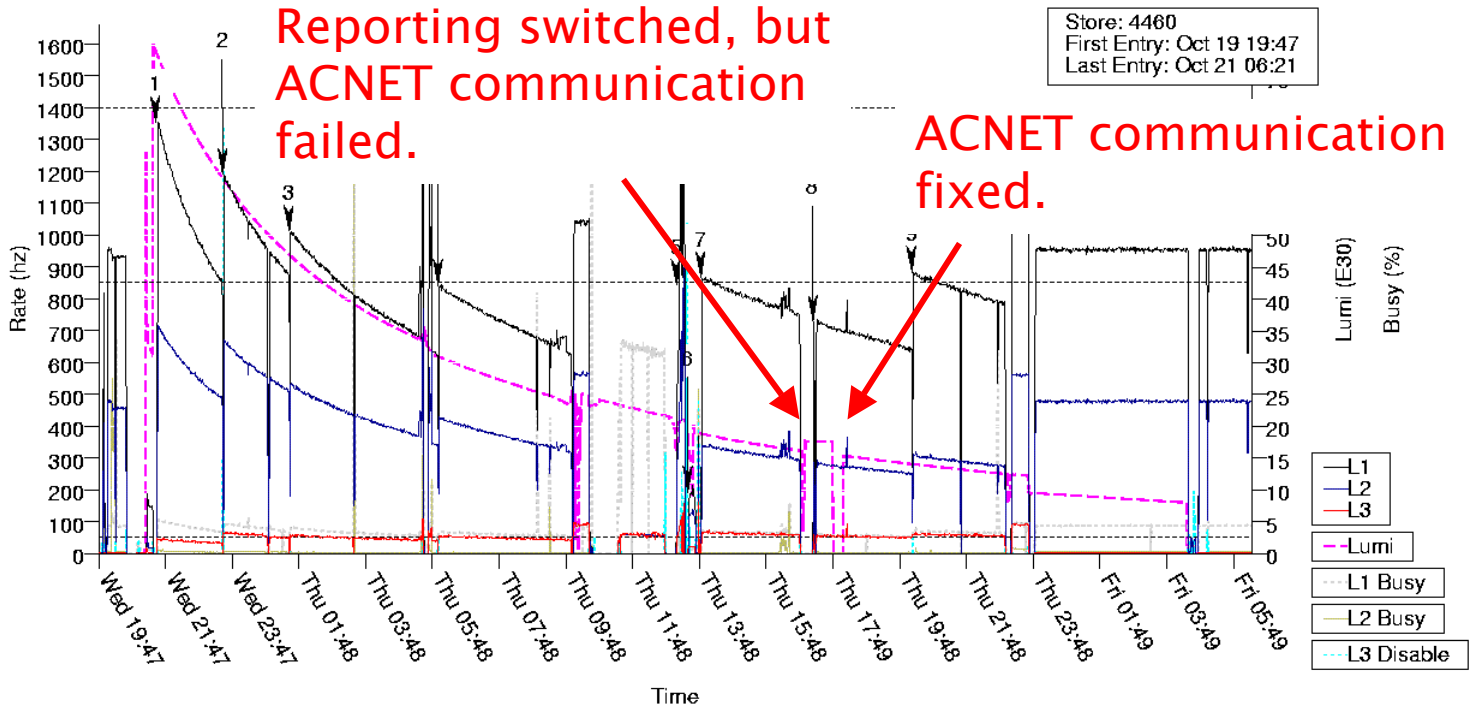
19 April 2002 - 20 October 2005



Oct. 6 Ramp down – Chimney "B" voltage
Just made it below the quench detection limit



Luminosity reporting by new VME electronics



New electronics:

- Less sensitive to backgrounds and deadtime.
- Less prone to saturation effects.

Accesses

- 10/17 (Mon)
  - Install and test a Run IIb muon PDT Control Board.
- 10/18 (Tue)
  - Investigate FPS DFE low voltage problems.
- 10/22 (Sat)
  - Replace a calorimeter daughter card and a pulser power supply.

1 fb-1 to Tape!

Please come celebrate at the User's Center At 5:15 Today